coast of the United States, which have been referred to it, it becomes practically impossible to separate it from the genus Icelus of Kröyer. Some of the differeut members of Artedius are more like Icelus hamatus than they are like each other. At present we are unable to draw auy satisfactory dividing line anong these species, and elsewhere (sirn. Fish. N. A., 689) we have referred all of them to Icelus. In the same memoir we have mentioned the specimens which here become the types of A. fenestralis as "Northeru specimens," representing "a marked variety" of Icelus notospilotus.

Indiana University, October 11, 1882.

##  ASTTEPRAS), FEOMI TAZAArTEAN AND PANAMIA.

## BY DAVID S. JOREDAN ANT CHARLES TI. GHLBEEET.

## Urolophus asterias sp. nov.

Disk almost round, a little broader than long; its length just about equal to length of tail. Anterior margins of disk nearly straight. the tip acute, slightly exserted, much less prominent than in U. aspidurus, longer in the male specimen than in the females. Distance from eye to tip of snout, about one-fourth length of disk and a little more than twice interorbital width. Interorbital space somewhat concave. Eyes small, much smaller than the large spiracles, the diameter about half the interorbital width. Width of mouth $2 \frac{1}{6}$ in its distance from tip of snont. Teeth conic and sharp in the males, blunter and somewhat parement-like in the females. Nostrils directly in front of angles of mouth; nasal folds forming a broad continuous flap, the edges of which are slightly fringed.

Ventrals projecting a little beyond outline of disk. Caudal spine rery long, somewhat longer than suout, its insertion considerably in front of middle of tail. Caudal fin moderate, the upper lobe deepest, inserted opposite tip of caudal spine, the lower lobe beginuing farther forward, the depth of the tail with caudal fin, about half the interorbital space.

Skin above everywhere rather sparsely covered with small stellate prickles, these larger and more numerous toward the median line of the back and head; wanting on the ventral fin. Males and females about equally rough. Median line of back with a series of rather strong, sharp recurved spines, 18 to 32 in number, extending from the shoulders to the front of the caudal spine, these usnally becoming much larger and sharper backward, hut the largest much smaller than the spines in $U$. aspidurus.

Color, light brown, without distiuct markings; tail, faintly edged with dusky; lower side white.

This species is not rare at Mazatlan, where it is known as Raia. It is also occasionally taken at Panama.

Three females and one male specimen, from 12 to 16 inches in length, were bronght from Mazatlan, and one young male from Panama.

specimens in United States National Museum.

| 28204. | Mazatlan, Gilbert. |  |
| :--- | :---: | :---: |
| 29544. | $"$ | $"$ |
| 29542. | $"$ | $"$ |
| 29580. | $"$ | $"$ |
| 29318. | Panama, | $"$ |

The species of Urolophus thus far known from the Pacific coast of tropical America may be distinguished by the following analysis:
a. Anterior margins of disk nearly straight ; insertion of caudal spine in front of the middle of the tail; the spine longer than snont.
$b$. Disk everywhere perfectly smooth; no spines or prickles; disk broader than long, consiflerably longer than tail, teeth obtuse in both sexes; length of snont less than one-fourth disk; brown above, with many yellowish spots.
. Halleri*
bb. Disk smooth, or with a few minute prickles; upper part of tail with a few ( $\because$ to 8) large buckler-like spines on the median line; disk slightly longer than broad, slightly shorter than tail; teeth in malesaeute; length of snout, abont one-thirt disk; brown above, nearly plain

Aspidurus $\dagger$
$b b b$. Disk covered with small stellate prickles; a series of small spines along median line from shonlder to eandal spine; disk a little broader than long, as long as tail; length of snout, abont one-fourth disk; teeth in males acute;

aa. Anterior margins of disk convex; insertion of candal spine iu front of middle of tail; the spine not longer than snout; tail rather longer than body ; teeth sharp in both sexes; skin beset with stellate tubereles.

MUNDUS $\ddagger$

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Four weeks during the months of July and Angust. 188", were spent by Mr. Gilbert in collecting and stadying the fishes of Charleston and vicinity in the interests of the United States National Museum. One hundred and twenty-three speeies of marine fishes were observed; of these twenty one had not been previonsly recorded from our South Atlantic coast, nineteen being additions from the West Indies and the Gulf of Mexico.

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[^0]:    * Urolophu*halleri, Cooper, Proc. Cal. Acad. Nat. Sei., 1863, III, 95. Point Concepeion to Panama (Santa Barbara, San Pedro, San Diego, Mazatlan, Panama.)
    † Crolophus aspidurux Jor. \& Gilb., Bull. U. S. Fish Com., 1E81, 307. Panama.
    $\ddagger$ Crotrygon mundus Gill. Proc. Acad. Nat. Sei., Phila., 1863, 173. Panama. (Dow collection; the type now lost.)

